## **WEST Search History**



DATE: Saturday, December 10, 2005

Hide?	Set Name	Query	Hit Count
	DB=PGPB	USPT, USOC, EPAB, JPAB, DWPI; PLUR = YE	S; OP=ADJ
	L4	pctx1	3
	L3	fmrfamide-related	36
	L2	fmrfamide	83
	L1	ASIC\$ with (agonist or antagonist)	10

END OF SEARCH HISTORY

## (FILE 'HOME' ENTERED AT 13:55:38 ON 10 DEC 2005)

## FILE 'MEDLINE, BIOSIS' ENTERED AT 14:08:46 ON 10 DEC 2005

L1	573 S ASIC?
L2	33 S L1 AND (ANTAGONIST OR AGONIST)
L3	24 DUP REM L2 (9 DUPLICATES REMOVED)
L4	16 S PCTX1
L5	11 DUP REM L4 (5 DUPLICATES REMOVED)

ANSWER 11 OF 11 MEDLINE on STN L5 ACCESSION NUMBER: MEDLINE 2000437154 DOCUMENT NUMBER: PubMed ID: 10829030

TITLE:

Isolation of a tarantula toxin specific for a class of

proton-gated Na+ channels.

Escoubas P; De Weille J R; Lecoq A; Diochot S; Waldmann R; **AUTHOR:** 

Champigny G; Moinier D; Menez A; Lazdunski M

Institut de Pharmacologie Moleculaire et Cellulaire, Centre CORPORATE SOURCE:

National de la Recherche Scientifique, Sophia-Antipolis,

Valbonne, France.

Journal of biological chemistry, (2000 Aug 18) 275 (33) SOURCE:

25116-21.

Journal code: 2985121R. ISSN: 0021-9258.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

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Priority Journals FILE SEGMENT:

ENTRY MONTH: 200009

ENTRY DATE: Entered STN: 20000928

> Last Updated on STN: 20020719 Entered Medline: 20000921

Acid sensing is associated with nociception, taste transduction, and AB perception of extracellular pH fluctuations in the brain. Acid sensing is carried out by the simplest class of ligand-gated channels, the family of H(+)-gated Na(+) channels. These channels have recently been cloned and belong to the acid-sensitive ion channel (ASIC) family. Toxins from animal venoms have been essential for studies of voltage-sensitive and ligand-gated ion channels. This paper describes a novel 40-amino acid toxin from tarantula venom, which potently blocks (IC(50) = 0.9 nm) a particular subclass of ASIC channels that are highly expressed in both central nervous system neurons and sensory neurons from dorsal root ganglia. This channel type has properties identical to those described for the homomultimeric assembly of ASICla. Homomultimeric assemblies of other members of the ASIC family and heteromultimeric assemblies of ASIC1a with other ASIC subunits are insensitive to the toxin. The new toxin is the first high affinity and highly selective pharmacological agent for this novel class of ionic channels. It will be important for future studies of their physiological and physio-pathological roles.